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Optical investigation of stresses ...

S/148/60/000/011/007/015  
A161/A030

caused by them, had up to now not been studied in experiments for multi-roll mills. A special steel stand had been designed and placed into a thermostat; the rolls were made of optically active 3-40-M<sup>7</sup> (E-40-M) material (Ref. 4, N. I. Prigorovskiy, N. A. Kupryakova, M. F. Bokshteyn. There was new optically active material on the epoxy resin base. Byulleten' VINITI No. 37, 1957). The rolls were a precise copy of the mill rolls in 1 : 10 scale. The rolling process was simulated without torque, and in static instead of dynamic equilibrium of forces. The stresses were "frozen" in slowly cooled rolls after loading at a certain temperature. A G.Y. BMAU (BPU-IMASH) polarizer was used for photographing the isochromes, and a KCP-5 (KSP-5) polarizer with a Krasnov compensator for accurate determination of the isocones and isochromes in spots on the cuts where their order or gradient was too low for the BPU-IMASH. More attention has been paid to stress and strain in the axial cross section of the support roll, for its rigidity determines the rigidity of the entire four-high system. The isochromes pattern (Figure 2) and stress curves show that both the work and support roll only very faintly resemble a bent beam. It was stated that  $\sigma_x$  calculated with the conventional formulae, derived accord-

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ing to the materials strength theory, was seven times higher than the stress found in experiments. The isostates pattern clearly proved that the entire mass of the support roll works as a wall-beam, and this means that the conventional method of calculating the sag of the support rolls is wrong. The Tselikov formulae gave a sag of 0.047 mm, the Larke formulae 0.056 mm, and the experiment data 0.082 mm. The real pressure epure along the contact line (Figure 5) once more confirmed that the work roll works as a beam on an elastic base, and the trunnions on the bearings have a very high effect on the flattening resistance at the edges of the support roll barrel. This observation renders the Grudev's method of the resilience factor determination doubtful. The longitudinal flattening obviously has an inverse curvature to the sag strain curve of the support roll, and consequently the effect of sag is partly compensated by the effect of longitudinal flattening. But such a combination is obviously only possible at a certain relation of the rolls and the strip dimensions, and three cases are possible:  
1) In rolling narrow strip with sufficient resilience - the flattening epure will have the same curvature as the sag; 2) In rolling a sufficiently wide strip, or with rigid work rolls - the flattening may be straight-lined and have no effect on the difference of the displacement at the mid

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and the ends of the barrel; 3) In rolling very wide strip with very rigid work rolls - the flattening curvature will be inverse to the sag. It may be concluded that there exists a definite ratio between the strip width and the roll barrel length which will produce the maximum gage unevenness in constant compression. The stresses in contact are obviously higher on the support rolls than on the work rolls, and the support rolls surface must be more susceptible to fatigue failure (which is observed in practice). Conclusions: 1) The photoelastic method permits quantitative and qualitative evaluation of separate deformation components in the joint deformation of work and support rolls, and in finding the optimum roll parameters. 2) It is proven that the work roll works like a beam on elastic base, and the support roll trunnions have a very strong effect on the resilience of the work roll barrel edges. At  $\frac{L}{D}$  ratio near 1, the support roll differs significantly from the bent beam and consequently its sag will be more correctly calculated as a wall-beam, or by the common methods, with certain corrections, however. 3) The conventional calculation of rolls for contact strength in accordance with the Hertz theory does not meet the peculiarities

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of the interaction of the rolls in the contact zone. The maximum tangential stresses in the support roll highly exceed the maximum tangential stresses in the work roll. Preventive measures against fatigue failure are equally necessary for the surface of work and support rolls (relaxation, rational work periods between rolls replacements, etc.). 4) It is proven that the pressure between the work and support rolls is not evenly distributed, and this must be considered in calculations. There are 7 figures and 7 Soviet references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: September 2, 1960

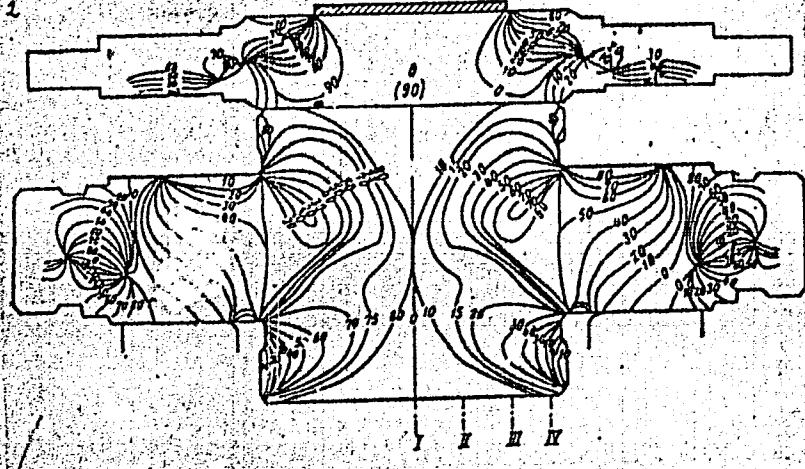
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Optical investigation of stresses ....

Figure 2: i

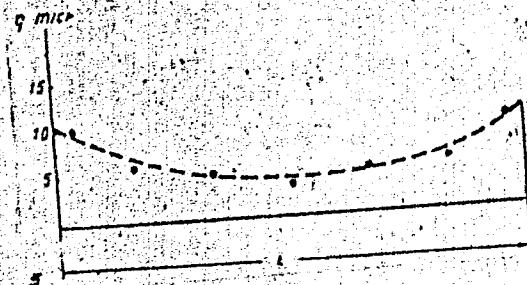


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Optical investigation of stresses ....

Figure 5:



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18.5200

S/121/60/000/006/004/008

AUTHORS: Zhelezov, Ye. S., Mikhel'kevich, V. N.

TITLE: Automatic Cross-Feed Control of Internal Grinders

PERIODICAL: Stanki i Instrument, 1960, No. 6, pp. 18-20

TEXT: The authors describe an automatic control of the cross-feed during internal grinding operations, the principle of which consists in the fact that, corresponding to the previously set program, the removal speed of the allowance as a function of allowance itself is maintained during the grinding process with a definite degree of accuracy. The automatic control of the speed of allowance removal during the grinding process excludes negative effects of the grinding disk wear and of elastic deformations in the system machine tool - grinding disk - machined part on the steadiness of the operation cycle. Owing to this it is possible to increase the speed of allowance removal considerably (by 4-8 times in comparison with the technology existing at present), which would result in a reduction of machining time without running the risk of burning the machined surface. The authors establish the maximum speed of allowance removal  $v_{max}$  at which the surface of the machined part remains free from burns and the final speed  $v_{fin}$  of allowance removal at the end of the machining process, i. e. at

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Automatic Cross-Feed Control of Internal Grinders      3/121/60/000/006/004/008

that instant when the grinding disk is removed from the machined part. The required degree of surface finish of the machined part has to be considered. The automation of the cross-feed is rendered possible by the use of a special electric tracer drive which represents a closed system of automatic regulation. If the actual feed deviates from the given one, the system of automatic regulation aims at reducing this disagreement to a minimum. The automatic control device has been developed by the Kafedra Elektrifikatsii Predpriyatiy Kuybyshevskogo Industrial'nogo Instituta (Department of Plant Electrification of the Kuybyshev Industrial Institute) together with the Kuybyshevskiy Ordena Lenina Podshipnikovyy Zavod (Kuybyshev Order of Lenin Bearing Plant). The investigations and tests carried out with an internal grinding machine with program-controlled cross-feed showed that in this case the machining time can be reduced by 1.9-2.5 times in comparison with machining without automatic control, if all the technological demands are observed. Machine tool efficiency increases by 35-50% depending on the type of dimension of the machined part, while the specific power consumption is lowered. There are 2 graphs, 1 photo, 1 circuit diagram and 1 block-diagram.

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S/148/61/000/007/005/012  
E193/E380

1.1300

AUTHORS: Polukhin, P.I., Zhelezov, Yu.D. and Polukhin, V.P.

TITLE: Ways of increasing the operating efficiency of tandem thin-sheet rolling mills

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no. 7, 1961, pp. 101 - 104

TEXT: The most difficult problem in continuous thin-sheet rolling is to ensure uniform thickness of the product across its width. The conventional method of cambering is not quite satisfactory since in the case of a particular set of rolls it is effective only within a very narrow range of roll forces. The object of the present paper was to discuss alternative means of solving this problem. The authors refer to their earlier study (Ref. 1 - this journal, 1960, No. 11) of stresses and strains in a 4-high mill by an optical method. It was found then that the deformation of the work rolls was a sum total of bending of the back-up roll and flattening of the work rolls along the line of contact. The resultant effect of these two types of deformation can vary, depending upon the  $D_r/D_c$ ,  $\times$

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Ways of increasing ...  
 B/L and  $E_r/E_o$  ratios, where  $D_r$  and  $D_o$  are the diameters of the work and back-up rolls, respectively,  $E_r$  and  $E_o$  are their elastic properties and L and B are the dimensions of the strip. In practice, B/L is fixed but  $D_r/D_o$  and  $E_r/E_o$  can be varied. Since, however, the diameter of the work rolls can be increased only by constructing the rolls in such a way that the deformation due to flattening is equal in magnitude and opposite in sign to that due to bending. This can be achieved by using back-up rolls whose rigidity varies from a maximum in the middle to a minimum near the edges, such as the composite rolls of the type illustrated in Fig. 2. The roll shown in Fig. 2a consists of a cylindrical steel sleeve fitted onto a barrel-shaped roll; the sleeve fits closely on the middle portion of the roll. The sleeves shown in Fig. 2b have two concentric sleeves whose cross-section varies from a maximum in the middle outwards. The outer sleeve is made of steel of lower modulus than that of the inner one.

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Ways of increasing ...

roll material (cast iron can be used for this purpose). Such rolls can be made either by pouring cast iron in the space between the inner and outer sleeves (Fig. 26), or by preheating the roll. Composite rolls of the above type offer several advantages: 1 - they ensure uniform thickness of the finished product, particularly when long (up to 2500 mm) rolls are used; 2 - setting of the rolls is simplified since uniformly differing thick sheet can be produced; 3 - drafts can be produced under critical and automation conditions of widely differing L/D ratio; 4 - easier to adjust, since setting of the rolls is employed; 5 - the frequency of strip breakage is greatly reduced, provided that a more effective lubricant is used at the same time, provided that thinner tinplate can be produced; 6 - the output of the plant can be increased, whereby the life of the rolls is increased in the article.

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E193/E380

Ways of increasing ....

There are 2 digures and 3 Soviet references.

ASSOCIATION: Moskovskiy institut stali (Moscow Institute  
of Steel)

SUBMITTED: February 21, 1961

Card 4/5

ZHELEZNOV, Yu.D.; POLUKHIN, V.P., prof., doktor tekhn.nauk

Investigating contact stresses in the rolls of a multiple-roll  
mill. Izv.vys.ucheb.zav.; chern.met. 4 no.5:85-97 '61.

(MIRA 14:6)

1. Moskovskiy institut stali.  
(Rolling mills) (Strains and stresses)

POLUKHIN, P.I.; ZHELEZNOV, Yu.D.; POLUKHIN, V.P.

Durability of rolls on mills for the continuous cold rolling of  
thin sheet. Izv. vys. ucheb. zav., chern. met., 4 no.7:121-  
128 '61. (MIRA 14:8)

1. Moskovskiy institut stali.  
(Rolls(Iron mills))

POLUKHIN, P.I.; PEDOS, I.F.; RADYUKEVICH, L.V.; ZHELEZNOV, Yu.D.,  
POLUKHIN, V.P.

Increasing the efficiency of roll performance in the cold rolling  
of thin sheet. Stal' 21 no.10:916-920 0 '61. (MIRA 14:10)  
(Rolls (Iron mills))

POLUKHIN, P.I.; GRIGORYAN, G.G.; NIKOLAYEV, V.A.; ZHELEZNOV, Yu.D.

Active stresses in the rolls of cold rolling mills. Vest. AN Kazakh.  
SSR 20 no.2:71-80 F '64.  
(MIRA 18:1)

POLUKHIN, P. I.; GRIGORYAN, G. G.; NIKOLAYEV, V. A.; ZHELEZNOV, Yu. D.

Approximate modeling of stresses in the surface layers of  
work rolls. Izv. vys. ucheb. zav.; chern. met. '7 no.6:97-102 '64.  
(MIRA 17:7)

POLUKHIN, P.I.; POLUKHIN, V.P.; ZHELEZNOV, Yu.D.; MARKOVSKIY, V.Yu.

Investigating stresses and deformations in two-dimensional sheet  
rolling mill rolls by the method of two-dimensional photoelasticity.  
Izv.vys.ucheb.zav.; chern.met. 5 no.4:61-75 '62. (MIRA 15:5)

1. Moskovskiy institut stali.  
(Rolls (Iron mills)) (Photoelasticity)

POLUKHIN, P.I.; POLUKHIN, V.P.; ZHELEZNOV, Yu.D.

Comparative analysis of elastic compression of rolls on a  
four-high mill and cylinders according to Gerts. Izv. vys.  
ucheb. zav.; chern. met. 5 no.5:115-119 '62. (MIRA 15:6)

1. Moskovskiy institut stali.  
(Rolls (Iron mills))  
(Deformations (Mechanics))

POLUKHIN, V.P.; ZHELEZNOV, Yu.D.

Effect of the roughing roll diameter on the efficiency of a  
four-high, cold rolling sheet mill. Izv. vys. ucheb. zav.;  
chern. met. 5 no.7:103-109 '62. (MIRA 15:8)

1. Moskovskiy institut stali i splavov.  
(Rolling mills)

POLUKHIN, V.P.; ZHELEZNOV, Yu.D.; ZINOV'YEV, A.V.

Elastic deformations of rolls on a four-high mill. Izv. vys. ucheb. zav.; chern. met. 5 no. 9:143-149 '62. (MIRA 15:10)

1. Moskovskiy institut stali i splavov. Rabota vypolnena pod rukovodstvom prof. doktora tekhn.nauk P.I. Polukhina i chlena-korrespondenta AN SSSR I.M. Pavlova.

(Rolls (Iron mills)) (Deformations ( Mechanics))

POLUKHIN, V.P.; ZHELEZNOV, Yu.D.; SKORUPSKIY, V.I.

Effect of rolled sheet width and roll grooving on the strength  
and elastic deformation of rolls on four-high mills. Izv.vys.  
ucheb.zav.; chern.met. 5 no.11:106-112 '62. (MIRA 15:12)

1. Moskovskiy institut stali i splavov.  
(Rolls (Iron mills))

POLUKHIN, P. I., prof., doktor tekhn. nauk; ZHELEZNOV, Yu. D., inzh.;  
POLUKHIN, V. P., inzh.; KOZLOV, O. F., inzh.

Criteria for the durability of rolls on cold rolling mills.  
Sbor. Inst. stali i splav. no.40:210-218 '62.  
(MIRA 16:1)

(Rolls(Iron mills))

ZHELEZNOV, Yu. D., inzh.; POLUKHIN, V. P., inzh.

Using the optical polarization method for the investigation  
of strains and elastic deformations of rolling mill rolls.  
Sbor Inst. stali i splav. no.40:251-263 '62.

(MIRA 16:1)

{Rolls(Iron mills)—Testing)  
(Deformations(Mechanics)—Testing)

AUTHORS: Pelukhin, P. I.; Zholdanov, Yu. D.; Vorontsov, V. K.; Grigoryan, G. G.

>Title: Application of optically sensitive coatings in the study of plastic  
deformation mechanisms

ISSUED BY THE RESEARCHES OF RADIATION PHYSICS AND POLYMER SCIENCE BUREAU BY

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POLUKHIN, P.I.; ZHELEZNOV, Yu.D.; POLUKHIN, V.P.; RADYUKEVICH, L.V.;  
PRATUSEVICH, I.I.; NIKOLAEV, V.A.

Effect of technological factors on roll grooving for thin sheet  
mills. Stal' 23 no.2:146-152 F '63. (MIRA 16:2)

1. Moskovskiy institut stali i splavov i Magnitogorskiy  
metallurgicheskiy kombinat.  
(Rolls (Iron mills))

POLUKHIN, P. I.; GRIGORYAN, G. G.; ZHELEZNOV, Yu. D.

Investigating the strength of roughing rolls with an axial  
groove. Izv. vys. ucheb. zav.; chern. met., 7 no. 4:71-76 '64.  
(MIRA 17:5)

1. Moskovskiy institut stali i splavov.

POLUKHIN, P.I., doktor tekhn. nauk, prof.; ZHELEZNOV, Yu.D., kand. tekhn. nauk; ANTSIFEROV, V.G., inzh.; REIZOV, N.S., inzh.; SAKHARIN, N.N., inzh.; NIKOLAYEV, V.A., inzh.; TERESHKO, A.K., inzh.; POLUKHIN, V.P., kand. tekhn. nauk

Investigating the strength of the connecting rod of slabbing-mill shears. Vest. mashinostr. 43 no.10:13-17 O '63.

(MIRA 16:11)

POLUKHIN, P.I.; ZHELEZNOV, Yu.D.; VORONTSOV, V.K.; GRIGORYAN, G.G.

Using the method of optically sensitive coatings for the study  
of plastic deformations in polycrystalline materials. Fiz. met.  
i metalloved. 15 no.6:927-929 Je '63. (MIRA 16:7)

1. Moskovskiy institut stali i splavov.  
(Deformations mechanics) (Optical measurements)

POLUKHIN, P.I.; NIKOLAYEV, V.A.; RADYUKEVICH, L.V.; ZHELEZNOV, Iu.D.;  
POLUKHIN, V.P.

Increasing the output of the 1200 continuous mill. Metallurg  
8 no.5:18-19 My '63.  
(MIRA 16:7)

1. Moskovskiy institut stali i splavov i Magnitogorskiy  
metallurgicheskiy kombinat.  
(Rolling mills)

POLUKHIN, P.I.; POLUKHIN, V.P.; ZMELEZNOV, Yu.D.; SKORUPSKIY, V.I.

Use of volumetric component models in the study of the strength of  
rollers by an optical method. Zav.lab. 29 no.8:990-992 '63.

(MIRA 16:9)

1. Moskovskiy institut stali i splavov.  
(Rolls (Iron mills)--Testing)

PAVLOV, I. M.; POLUKHIN, P. I., prof., doktor tekhn. nauk;  
ZHELEZNOV, Yu. D., inzh.; POLUKHIN, V. P., inzh.

Photoelastic method for the investigation of stresses in rolls  
and in the strip during rolling. Sbor. Inst. stali i splav.  
no.40:264-276 '62. (MIRA 16:1)

1. Chlen-korrespondent AN SSSR (for Pavlov).

(Rolling(Metalwork)) (Photoelasticity)

POLUKHIN, P. I., prof., doktor tekhn. nauk; ZHELEZNOV, Yu. D., inzh.;  
POLUKHIN, V. P., inzh.; MARKOVSKIY, V. Yu., inzh.

Heat balance in the performance of five-stand cold rolling  
mills. Sbor. Inst. stali i splav. no.40:219-224 '62.  
(MIRA 16:1)

(Rolling mills) (Heat)

POLYKIN, P.I.; SKORIKHIN, V.I.; ZHELEZNOV, Yu.P.; ANISIFEROV, V.G.

Investigating the strength of back-up rolls with sleeves  
having an irregular fit. Izv. vys. uchab. zav. Chern. met.  
8 no.11:93-98 '65. (MIRA 18:ii)

1. Moskovskiy institut stali i splavov.

YEGOROVA, V.A.; ZHELEZNOVA, A.A.

Specific alkalinity of the surface layer of the Mediterranean  
Sea based on observations made in the summers of 1959-1960.  
Okeanologija 3 no.4:653-665 '63. (MIRA 16:11)

1. Chernomorskaya eksperimental'naya nauchno-issledovatel'skaya  
stantsiya Instituta okeanografii AN SSSR.

SHISHKINA, O.V.; ZHELEZNOVA, A.A.

Chlorinity of the interstitial water in the northern part of  
the Indian Ocean. Trudy Inst. okean. 64:144-153 '64.

Oxidation-reduction potential and the pH of sediments in the  
northern part of the Indian Ocean. Ibid.:236-249

(MIRA 17:7)

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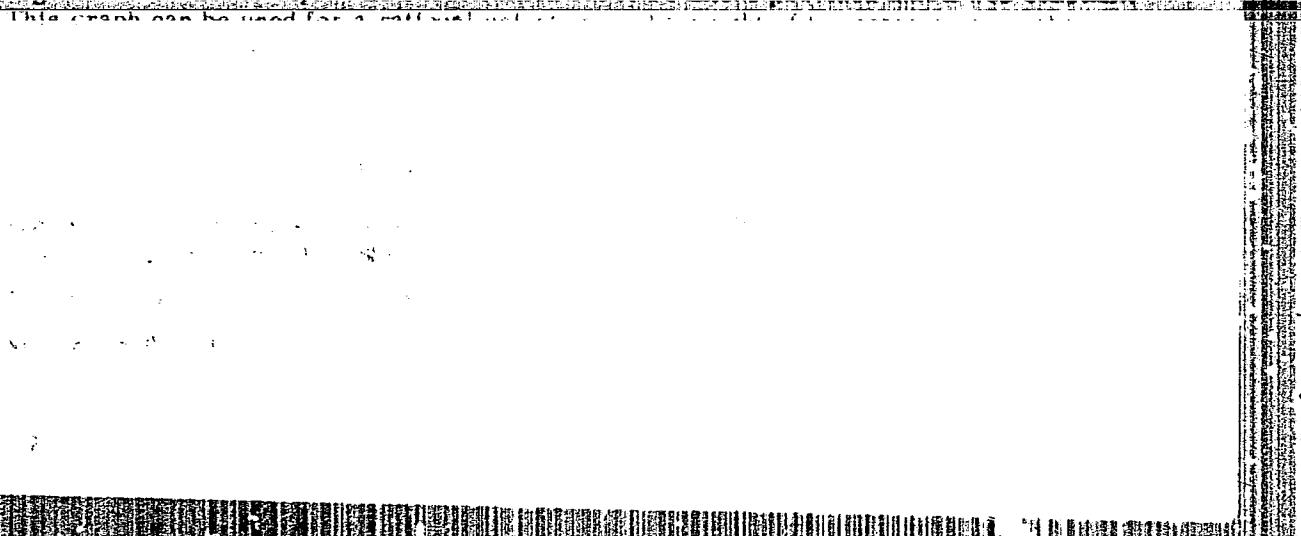
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TARASEVICH, N.I.; ZHREZNOVA, A.A.

Spectrochemical method for determining manganese, molybdenum,  
tungsten, and tantalum impurities in high purity element  
boron. Zhur. anal. khim. 18 no.11:1345-1348 N '63.

(MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

TARASEVICH, N.I.; ZHELEZNOVA, A.A.

Chemical and spectral determination of microimpurities in boron, silicon dioxide, and trichlorosilane. Trudy Kom. anal. khim, 15:121-126 '65.  
(MIRA 18:7)

ZHELEZNOVA, A.A.

Suspension effect in connection with measuring the pH of sea  
sediments. Trudy Inst. okean. 54:83-99 '62. (MIRA 16:6)  
(Hydrogen-ion concentration) (Deep-sea deposits)

ZHELEZNOVA, A.A.

Suspension effect in measuring the pH of marine sediments. Trudy Inst.  
okean. 67:135-140 '64. (MIRA 17:12)

137-58-1-2146

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 292 (USSR)

AUTHORS: Tarasevich, N. I., Zheleznova, A. A., Semenenko, K. A.

TITLE: Spectrographic Identification of Tantalum in Niobium Pentoxide  
(Spektrograficheskoye opredeleniye primesi tantala v  
pyatiokisi niobiya)

PERIODICAL: Vest. Mosk. un-ta, ser. matem., mekhan., astron., fiz.,  
khimii, 1957, Nr 1, pp 156-158

ABSTRACT: A description is offered of a method of spectrographic identification of 0.3-1.5 percent Ta in Nb<sub>2</sub>O<sub>5</sub>. Standards were made by introducing Ta dissolved in a mixture of HNO<sub>3</sub> and HF into the Nb<sub>2</sub>O<sub>5</sub>. A sample (50-60 mg) was burned in an activated AC arc (220 v, 6-6.5 amp). The spectrogram was obtained by means of a KS-55 quartz spectrograph. The analytical pairs of lines were: Ta 2714, 674 - Nb 2714, 198A. The relative error in content of ~0.3 percent Ta in Nb and Nb<sub>2</sub>O<sub>5</sub> was ±12 percent.

A. Sh.

1. Tantalum—Determination 2. Spectrographic analysis—Applications

Card 1/1

ZHELEZNOVA, A.I.

Late results of hormone therapy in rheumatic fever. Sov.  
med. 27 no.12:33-37 D'63 (MIRA 17:4)

1. Iz kafedry gospital'noy pediatrii ( zav. - prof. B.I.  
Gurvich) Gor'kovskogo meditsinskogo instituta imeni S.M.  
Kirova.

ZHELEZNOVA, A.P.

New data on the geological structure of the Zeya-Bureya trough  
and the further development of prospecting for oil and gas.  
Neftegaz. geol. i geofiz. no.3:33-38 '64. (MIRA 17:5)

1. Zeye-Bureinskaya ekspeditsiya.

ANIN, B., ZHELEZNOVA, L.

When socialist competition is directed in formalistic manner.  
Sov. profsoiuzy 17 no. 3:16-17 F '61. (MIRA 14:2)  
(Oboyan' District—Socialist competition)  
(State farms) (Trade unions)

ZHELEZNOVA, L.

Events of July 1917. Sov.profsoiuzy 5 no.7:61-62 J1 '57.  
(MLRA 10:8)  
(Russia--Revolution, 1917-1921)

ZHELEZNOVA, I. (Leningrad)

Case No.2-343. Sov. profsoiuzy 19 no.16:19 Ag '63. (MIRA 16:10)

ZHMYKHOV, I.N.; KOROL'KOV, V.A.; KRAYNOV, P.A.; ZHELEZNOVA, J.M., redaktor;  
RAKOV, S.I., tekhnicheskiy redaktor

[History of the trade union movement in foreign countries; in the  
first stage of the general crisis of capitalism] Istoriia prof-  
sociuznogo dvizheniya za rubezhom; na pervom etape obshchego krizisa  
kapitalizma. [Moskva] Izd-vo VTsSPS Profizdat. Pt. 2. 1955. 167 p.  
(MIRA 9:10)

1. Moscow. Vysshaya shkola profdvizheniya.  
(Trade unions)

DADYKIN, Rostislav Petrovich; ZHELEZNOVA, L.M., red.; SHADRIKA, N.D., tekhn.  
red.

[Eighth Congress of Soviet Trade Unions] VIII s"ezd sovetskikh  
profsoiuzov. [Moskva] Izd-vo VTS SPS Profizdat, 1957. 79 p.  
(Trade unions—Congresses) (MIRA 11:5)

ANDROSOV, Vladimir Pavlovich; GEYEVSKIY, I.A., red.; ZHELEZHOVA, L.M.,  
red.; RAKOV, S.I., tekhn.red.

[Methods used by American monopolies in their struggle against  
the laboring class] Metody bor'by amerikanskikh monopolii  
protiv rabochego klassa. Moskva, Izd-vo VTS SPS Profizdat, 1958.  
141 p. (MIRA 12:7)

(United States--Monopolies)  
(United States--Labor and laboring classes)

NOVIKOVA, Aleksandra Nikolayevna; KOCHERGIN, Vadim Vadimovich; ZHELMZHOVA,  
L.M., redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[As guests of textile workers of Uruguay] V gostiakh u tekstil'-  
shchikov Urugvaya. [Moskva] Izd-vo VTsSPS Profizdat, 1956. 75 p.  
(MIRA 10:3)

(Russia--Relations (General) with Uruguay)  
(Uruguay--Relations (General) with Russia)

PANKRATOVA, A.M., akademik, redakteur; GOTLOBER, D.A., redakteur; ZHREZHOVA,  
L.H., redakteur; RAKOV, S.I., tekhnicheskiy redakteur.

[History of the trade-union movement in the U.S.S.R.] Isteria  
profsoiuznogo dvizheniya v SSSR. Pod red. A.M.Pankratevoi. Moskva  
Izd-vo VTS SSSR Pressdat, No.2, 1955. 447 p. (MLRA 9:5)

1. Moscow. Moskovskaya vyschaya shkola predvisheniya.  
(Trade unions--History)

APOSTOL, George; YEMTSOVA, R.[translator]; MARKHEVA, V., red.; ZHRELZHOVA,  
L.M., red.; RAKOV, S.I., tekhn.red.

[Trade unions of the Rumanian People's Republic in the establishment  
of socialism] Profzoiusy Rumynskoi Narodnoi Respubliki v bor'be za  
postroenie sotsializma. [Moskva] Izd-vo VTeSFS Profindat, 1957.  
(MIRA 11:5)

70 p.  
(Rumania--Trade unions)

MARKOV, Ivan Petrovich; ZHELEZNOVA, L.M., red.; GOLICHENKOVA, A.A., tekhn.  
red.

[Tenth Congress of Soviet Trade Unions] X s'ezd sovetskikh profsoiuzov.  
[Moskva] Izd.-vo VTSiSPS Profizdat, 1957. 78 p. (MIRA 11:5)  
(Trade unions--Congresses)

IL'IN, Vasiliy Petrovich; ZHELEZNOVA, L.M., red.; SHADRINA, N.D., tekhn.  
red.

[Fourth All-Russian Congress of Trade Unions] IV Vserossiiskii  
s"ezd profsoiuzov. [Moskva] Izd-vo VTsSPS Profizdat, 1958. 75 p.  
(Trade unions—Congresses) (MIRA 15,10)

ZHELEZNOVA, L.M.

PBVZNER, Ya.A.; ZHELEZNOVA, L.M., redaktor; KIRSANOV, N.A., tekhnicheskiy  
redaktor;

[The condition and the struggle of the working classes in present-  
day Japan] Pelezhenie i ber'ba trudiashchikhsia klassey v sovremennoi  
Iaponii. [Moskva] Izd-vo Vsesoyuznogo Profizdat, 1956. 101 p.

(MIRA 10:4)

(Japan--Labor and laboring classes)

BALMASHNOV, Aleksandr Aleksandrovich; ZHELEZNOVA, L.M., redaktor; RAKOV, S.I.,  
tekhnicheskiy redaktor

[World Federation of Trade Unions in the struggle for the workers'  
unity of action] Vsemirnaya federatsiya profsoiuzov v bor'be za  
edinstvo deistvii trudiashchikhsia. [Moskva] Izd-vo VTsSPS Profizdat,  
1956. 180 p.

(World Federation of Trade Unions)

ZHELEZNOV, L.M.

ANTROPOV, Nikolay Prokhorovich; ZHELEZNOVA, L.M., red.; RAKOV, S.I.,  
tekhn.red.

[Second All-Russian Congress of Trade Unions] Vtoroi Vserossiiskii  
s'ezd profsoiuzov [Moskva] Izd-vo VTsSPS Profizdat, 1957. 70 p.  
(Trade unions—Congresses) (MIRA 11:2)

LEVINSKAYA, Mariya Samoylovna; MARKOV, Ivan Petrovich; ZHENEZHOVA, L.M.,  
red.; GOLICHENKOVA, A.A., tekhn. red.

[First All-Russian Congress of Trade Unions] Pervyi Vserossiiskii  
s'ezd profsoiuзов. [Moskva] Izd-vo VtSSPS Profizdat, 1958. 67 p.  
(Trade unions—Congresses) (MIRE 1147)

ARKADAEV, Yu.A.; BAKASHHEVA, L.I.; ZHMEKHOV, I.N.; VOYTENKO, Ye.S.;  
BOZHCHENKOV, E.P.; ILYAKHIN, M.I.; KOROL'KOV, V.A.; KRAYNOV, P.A.;  
LOBANOV, V.I.; MAMIDOV, A.; MARZBAN BABEK; RODIONOV, S.R.; ROSTOVSKIY,  
S.N.; SAKOVICH, V.P.; PIMENOV, P.T.; ZHELEZNOVA, L.M., red.; ZABOROV,  
M.A., red.; RAKOV, S.I., tekhn.red.

[History of the trade-union movement in foreign countries, 1939-1957]  
Istoriia profdvizheniya za rubezhom; 1939-1957 gody. Izd-vo VTsSPS  
Profizdat, No.3. 1958. 669 p. (MIRA 12:2)

1. Moscow. Moskovskaya vysshaya shkola profdvizheniya..2. Kafedra  
istorii profsoyuznogo dvizheniya za rubezhom Moskovskoy vysshey  
shkoly profdvizheniya(for all except Zheleznova, Zaborov, Rakov).  
(Trade unions)

YUSHINA, Tamara Fedorovna; ZHELEZNOVA, L.M., red.; GOLICHENKOVA, A.A.,  
tekhn.red.

[Ninth Congress of Soviet Trade Unions] Deviatyi s'ezd  
sovetskich profsojuzov. Izd-vo VTS SPS Profizdat, 1958. 76 p.  
(MIRA 12:2)  
(Trade unions--Congresses)

GRUNYUSHIN, M.; ZHELEZNOVA, N., brigadir brigady kommunisticheskogo  
truda

Less administration and more training. Sov.profsciuz 16  
no.6:45-46 Mr '60. (MIRA 13:3)

1. Predsedatel' tsekhovogo komiteta profsoyuza 1-go chasovogo  
zavoda.  
(Trade unions) (Food industry)

PETROV, D. F.; ZHELEZNOVA, N. B.

Experimental androgynecis in corn. Dokl. AN SSSR 147 no.6:  
1470-1472 D '62. (MIRA 16:1)

1. Tsentral'nyj Botanicheskiy sad Sibirsckogo otdeleniya AN  
SSSR. Predstavleno akademikom N. V. TSitsinym.

(Corn breeding)

ZHELEZNOVA, N.G.

Petrographic characteristics and conditions governing the formation  
of coal in the Jurassic in the central part of European U.S.S.R.  
Izv. vys. ucheb. zav.; geol. i razv. 3 no.12:56-66 D '60.

(MIRA 14:5)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.  
(Moscow Basin--Coal geology)

ZHELEZNOVA, N.G.

Quantitative evaluation of the degree of lignite decay. Izv. vys.  
ucheb. zav.; geol. i razv. 7 no.6:66-70 Je '64.

(MIRA 18:7)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.

ZHELEZNOVA, N.G., aspirant

Lignite of the central regions of the European part of the U.S.S.R.  
Izv.vys.ucheb.zav.; geol. i razv. 7 no.3:79-85 Mr '64.

(MIRA 18:3)

1. Moskovskiy geologorazvedochnyy institut im. S.Ordzhonikidze.

ZHELEZNOVA, N.S.; ZAUSAYLOV, N.A.

New techniques and technology in primary wool processing.  
Tekst.prom. 19 no.10:20-24 0 '59. (MIRA 13:1)

1. Nachal'nik otdela shersti Soyuzglavlegpromsyr'ye pri Gosplane  
SSSR (for Zheleznova). 2. Starshiy inzhener otdela shersti  
Soyuzglavlegpromsyr'ye pri Gosplane SSSR (for Zausaylov).  
(Woollen and worsted manufacture)

ZHELEZNOVA, Sh.I.; CHERKASOVA, N.G.

Clinical aspects of the metastatic spreading of cancer into  
the brain. Kgn. med. zhur. no.2:11-12 Mr-Ap '62. (MIRA 15:6)

1. Otdeleniye nervnykh bolezney Respublikanskoy klinicheskoy  
bol'nitsy (glavnyy vrach - Sh.V. Bikchurin) i kafedra nervnykh  
bolezney (zav. - prof. L.I. Omorokov) Kazanskogo meditsinskogo  
instituta.

(BRAIN—CANCER)

ZHELEZNOVA, V.E.; BOGOMOLOVA, O.R.

Changes in the anterior segment of the eyeball following the  
implantation of an artificial plastic crystalline lens in an  
experiment. Vest.oft. no.4:49-52 '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut eksperimentalnoy apparatury  
i instrumentov.  
(CRYSTALLINE LENS) (PLASTICS IN MEDICINE)

ZHELEZNOVA, V.F.

Use of mechanical sutures in the treatment of penetrating  
wounds of the eyeball. Vestn. oftal. 76 no.4:26-33 Jl-Ag'63  
(MIRA 17:1)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khi-  
rurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev)  
i Moskovskaya glaznaya klinicheskaya bol'nitsa (nauchnyy  
rukovoditel' - zasluzhennyy deyatel' nauki prof. M.L.Krasnov).

ZHELEZNOVA, V.F.

Electrokeratome for laminar transplantation of the cornea. Vest.  
oft. no.5:44-47 '62. (MIRA 15:12)

1. Moskovskaya glaznaya klinicheskaya bol'nitsa i Nauchno-  
issledovatel'skiy institut eksperimental'noy khirurgicheskoy  
apparatury i instrumentov.

(CORNEA—TRANSPLANTATION)(EYE, INSTRUMENTS AND APPARATUS FOR)

ZHELEZNOVA, V.V.

Improve the work on inventions and efficiency promotions. Khleb.  
1 kond. prom. 1 no.1:44-45 '57. (MLRA 10:4)

1. Konditerskaya fabrika "Krasnyy Oktyabr".  
(Confectionery)

KIRIYENKOV, N.N.; SEMENOV, A.S.; ZHELEZNOVA, V.V.

Machine for wrapping candies of the ~~Khleb~~ type. Khleb. i kond. prom.  
1 no. 5:25 My '57  
(MLRA 10:6)  
(Packaging machinery)  
(Confectionery - Equipment and supplies)

AVDRIEVA, A.V., doktor tekhn.nauk; ALIEKHIN, S.F., inzh.; ALTUNDZHI, K.S.,  
inzh.; BRONSHTEYN, I.I., kand.khim.nauk; BRUSHTEYN, M.S.;  
GRIGOR'YEV, V.B., inzh.; ZHELEZNOVA, V.V., inzh.; ISTOMINA, M.M.,  
kand.tekhn.nauk; KOZLOV, S.A., inzh.; KULESNIKOVA, V.K., inzh.;  
KOCHETKOV, I.A., inzh.; LUMIN, O.G., kand.tekhn.nauk; MANNINA, T.A.,  
inzh.; SEREBRYAKOV, M.N., inzh.; SMOLYANITSKIY, M.Ye., inzh.; TYURIN,  
A.I., kand.tekhn.nauk; TSYBUL'SKIY, A.A., inzh.; CHERNOIVANNIK, A.Ia.,  
inzh.; SHKLOVSKAYA, A.Ye., inzh.; BEN', G.M., inzh., retsenzent;  
MARSHALKIN, G.A., kand.tekhn.nauk, retsenzent; GUSAKOV, A.I., red.;  
MARTYNOV, M.I., kand.tekhn.nauk, red.; KHUGLOVA, G.I., red.; KISINA,  
Ie.I., tekhn.red.

[Confectioner's manual] Spravochnik konditera. Pod obshchsei red. M.I.  
Martynova. Moskva, Pishchepromizdat. Pt.2.[Technological equipment of  
the confectionery industry] Tekhnologicheskoe oborudovanie konditersko-  
go proizvodstva. 1960. 630 p. (MIRA 14:3)

(Confectionery--Equipment and supplies)

ZHELEZNOVA, V.V.; IVANOV, A.A.; TSYBUL'SKIY, A.A.

[Modern equipment for wrapping and packaging confectionery goods] Sovremennoe oborudovanie dlia zavertki i upakovki konditerskikh izdelii. Moskva, TSentr. in-t nauchno-tehn. informatsii pishchevoi promyshl., 1964, 65 p.  
(MIRA 18:6)

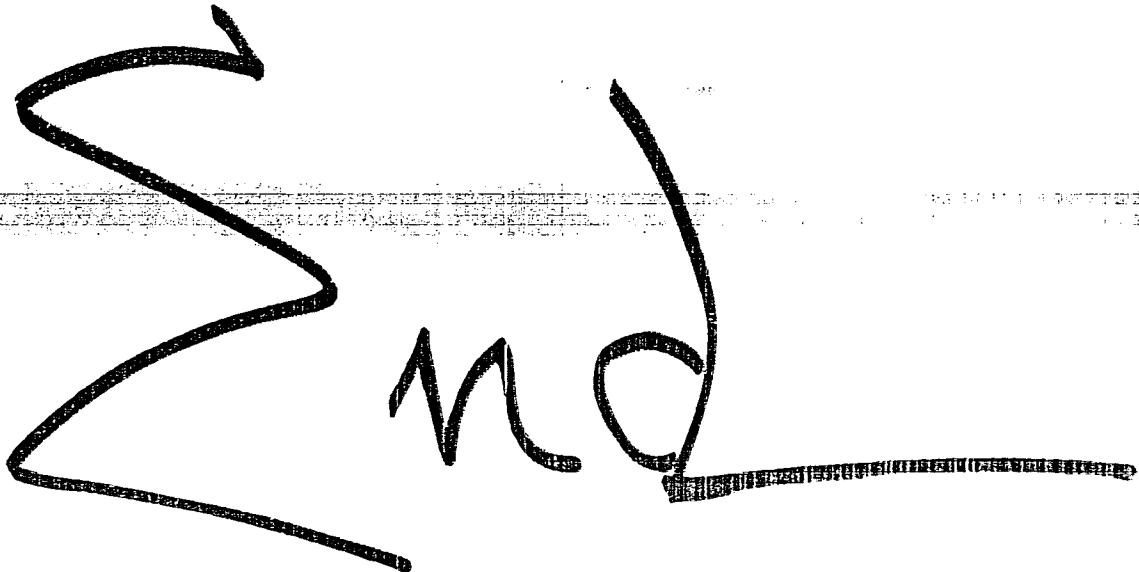
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Zharkov, M.  
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ZHELEZNOVA, V.V.

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